

**DECLARATION FOR PATENT APPLICATION
AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

Detector For A Gigabit Ethernet Receiver

which (check) is attached hereto.
 and is amended by the Preliminary Amendment attached hereto.
 was filed on April 28, 2000 as Application Serial No. 09/560,109
 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
Number	Country	Day/Month/Year Filed	Yes	No
N/A			<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date
N/A	

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending, abandoned)
N/A		

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Alan H. MacPherson (24,423); Brian D. Ogonowsky (31,988); David W. Heid (25,875); Norman R. Klivans (33,003); Edward C. Kwok (33,938); David E. Steuber (25,557); Michael Shenker (34,250); Stephen A. Terrile (32,946); Peter H. Kang (40,350); Ronald J. Meetin (29,089); Ken John Koestner (33,004); Omkar K. Suryadevara (36,320); David T. Millers (37,396); Michael P. Adams (34,763); Robert B. Morrill (43,817); James E. Parsons (34,691); Philip W. Woo (39,880); Emily Haliday (38,903); Tom Hunter (38,498); Michael J. Halbert (40,633); Gary J. Edwards (41,008); Daniel P. Stewart (41,332); John T. Winburn (26,822); Tom Chen (42,406); Fabio E. Marino (43,339); Don C. Lawrence (31,975); Marc R. Ascolese (42,268); Carmen C. Cook (42,433); David G. Dolezal (41,711); Roberta P. Saxon (43,087); Mary Jo Bertani (42,321); Dale R. Cook (42,434); Sam G. Campbell (42,381); Matthew J. Brigham (44,047); Hugh H. Matsubayashi (43,779); Patrick D. Benedicto (40,909); T.J. Singh (39,535); Shireen Irani Bacon (40,494); Rory G. Bens (44,028); George Wolken, Jr. (30,441); John A. Odozynski (28,769); Cameron K. Kerrigan (44,826); Paul E. Lewkowicz (44,870); Theodore P. Lopez (44,881); Mayankumar M. Dixit (44,064); Eric Stephenson (38,321); Christopher Allenby (45,906); David C. Hsia (46,235); Mark J. Rozman (42,117); Margaret M. Kelton (44,182); Do Te Kim (46,231); Alex Chen (45,591); Monique M. Heyninck (44,763); Gregory J. Michelson (44,940); Jonathan Geld (44,702); Emmanuel Rivera (45,760); Jason FarHadian (42,523); and Matthew J. Spark (43,453).

Please address all correspondence and telephone calls to:

Gary J. Edwards
Attorney for Applicant(s)
SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP
25 Metro Drive, Suite 700
San Jose, California 95110-1349

Telephone: 408-453-9200
Facsimile: 408-453-7979

I declare that all statements made herein of my own knowledge are true, all statements made herein on information and belief are believed to be true, and all statements made herein are made with the knowledge that whoever, in any matter within the jurisdiction of the Patent and Trademark Office, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall be subject to the penalties including fine or imprisonment or both as set forth under 18 U.S.C. 1001, and that violations of this paragraph may jeopardize the validity of the application or this document, or the validity or enforceability of any patent, trademark registration, or certificate resulting therefrom.

Full name of first joint inventor: Peter J. Sallaway

Inventor's Signature: P. Sallaway Date: 7/27/00

Residence: San Diego, CA

Post Office Address: 8178 Avenida Navidad, #23
San Diego, CA 92122 Citizenship: Canada

Full name of second joint inventor: Sreen Raghavan

Inventor's Signature: S. Raghavan Date: 7-27-00

Residence: La Jolla, California

Post Office Address: 8360 Prestwick Drive,
La Jolla, California 92037 Citizenship: Indian

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Honorable Director of the United States Patent and Trademark Office. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

(a) Sreen Raghavan

(b) Peter J. Sallaway

(c)

Additional name(s) of conveying party(ies) attached?

 Yes No

3. Nature of Conveyance:

 Assignment Merger

 Security Agreement Change of Name

 Other _____
Execution Date: July 27, 2000

2. Name and address of receiving party(ies):

Name: National Semiconductor CorporationStreet Address: 2900 Semiconductor DriveCity: Santa Clara State: CA Zip: 95051-8090Country: USA

Name and address of receiving party(ies):

Name: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Country: _____

4. Application number(s) or patent number(s): Application No. 09/560,109

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) - n/a

Title: Improved Detector For A Gigabit Ethernet Receiver

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: GARY J. EDWARDSInternal Address: SKJERVEN MORRILL MacPHERSON LLPStreet Address: 25 METRO DRIVE, SUITE 700City SAN JOSE State CA ZIP 951106. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00
 Authorized to be charged to Deposit Account 19-2386

 Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

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8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gary J. Edwards 41,008
Name of Person Signing



Signature

8/1/00
Date

Total number of pages comprising cover sheet: 3

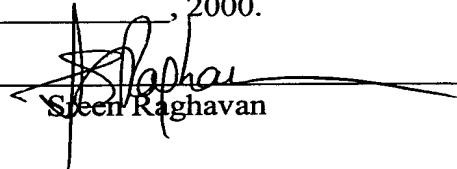
ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we Sreen Raghavan and Peter J. Sallaway hereby sell, assign and transfer to National Semiconductor Corporation, a Delaware corporation, having a place of business at 2900 Semiconductor Drive, Santa Clara, California, 95051-8090, its successors and assigns, the entire right, title and interest throughout the world in our invention in

Improved Detector For A Gigabit Ethernet Receiver

for which we filed a United States Patent Application on 04/28/2000, and now has Serial No. 09/560,109, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 27 day of JULY, 2000.

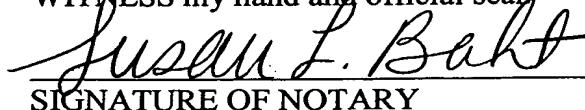

Sreen Raghavan

State of CALIF.)
County of SAN DIEGO) ss.

On JULY 27 2000 before me, SUSAN L. BAHT personally appeared SREEN RAGHAVAN personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal


Susan L. Baht
SIGNATURE OF NOTARY

Executed this 27 day of JULY, 2000.

Peter J. Sallaway
Peter J. Sallaway

State of CALIF. ss.
County of SAN DIEGO

On JULY 27, 2000 before me, SUSAN L. BAHT personally appeared PETER J. SALLAWAY personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



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Susan L. Baht
SIGNATURE OF NOTARY



173628 US
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

DECEMBER 05, 2000

PTAS

SKJERVEN MORRILL MACPHERSON LLP
GARY J. EDWARDS
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SUITE 700
SAN JOSE, CA 95110

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DEC 12 2000

SKJERVEN, MORRILL, MACPHERSON,
FRANKLIN AND FRIEL LLP.

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/03/2000

REEL/FRAME: 011144/0626
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RAGHAVAN, SREEN

DOC DATE: 07/27/2000

ASSIGNOR:

SALLAWAY, PETER J.

DOC DATE: 07/27/2000

ASSIGNEE:

NATIONAL SEMICONDUCTOR CORPORATION
2900 SEMICONDUCTOR DRIVE
SANTA CLARA, CALIFORNIA 95051-8090

SERIAL NUMBER: 09560109

FILING DATE: 04/28/2000
ISSUE DATE:

ANTIONE ROYALL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

ATTORNEY: AHM/6JE
Fly miss. pts off
ACTION: EDS DUE: 7-28-00
ACTION: status NC DUE: 10-28-01
ACTION: DUE:
DOCKETED BY: dd DATE: 1-1-01
FORM LETTER: YES/NO

mrd 8/3/00



101486169

To the Honorable Director of the United States Patent and Trademark Office. Please record the attached original documents or copy thereof.

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(a) Sreen Raghavan
(b) Peter J. Sallaway
(c)

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Country: USA

Name and address of receiving party(ies):

Name: _____
Street Address: _____
City: _____ State: _____ Zip: _____
Country: _____

4. Application number(s) or patent number(s): Application No. 09/560,109

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) - n/a

B. Patent No.(s)

Title: Improved Detector For A Gigabit Ethernet ReceiverAdditional numbers attached? Yes No

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0/13/2000 AHMED1 00000009 192386 09560109

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8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gary J. Edwards 41,008
Name of Person Signing

Signature

8/1/00
Date

Total number of pages comprising cover sheet: 3

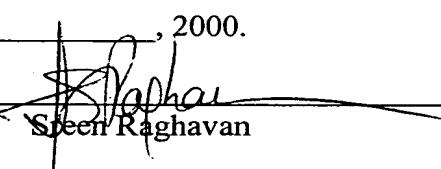
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Executed this 27 day of JULY, 2000.

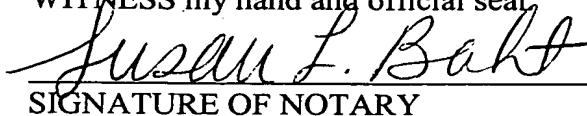

Sreen Raghavan

State of CALIF. ss.
County of SAN DIEGO

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WITNESS my hand and official seal,



SIGNATURE OF NOTARY

Executed this 27 day of JULY, 2000.

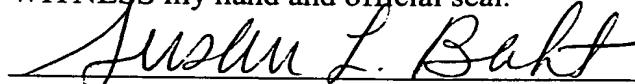

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